

Renan Larrieu de Abreu Mourão

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Education

- B.Sc. in Electrical Engineering – with emphasis in Power Systems, Rio de Janeiro State University (UERJ), Department of Electrical Engineering. (2018 - 2023).

- GPA: 3

Work Experience and Qualifications

Eletrobras – Aug 2021 - Current

- **Engineering Internship at the Power Transmission Maintenance Department**

- Study and development of a decision-making algorithm for indicating the optimal time to change power transformers.

- Technical and financial presentations of articles, models, flowcharts.

- Monte Carlo Simulation, State Machine Design and assembly of process flowcharts.

Languages

Portuguese: Native Proficiency.

English: Advanced Proficiency, C1 Level.

Spanish: Elementary Proficiency.

Extracurricular Activities

- **Avionics Head at the UERJ's Rocketry Group 2018 – 2022**

- Development of algorithms/codes for communication control.

- Processing of physical data captured by instrumentation system during engine tests.

- PCB design, simulations and code management.

- **IEEE PES & IAS Member 2020 – 2021**

- Simulation of circuits, systems and components related to conversion/output stabilization of the solar charging station project.

- **Scientific Research Volunteer at Power Electronics and Automation Laboratory 2020 – 2022**

- Development of a rapid prototyping platform for real-time simulations using an FPGA (Xilinx) to emulate circuits of power converters.

- **SummerSchool ARS22 at Berliner Hochschule für Technik 2022**

- A two-week remote summer course on the subject “Concepts for Climate Resilient and Climate Neutral Cities” with lots of lectures and engineering consultancy to learn how to design.

- Participation in a group of six participants as engineer to complete the [group design challenge of “Campus Information Pavilion”](#) according to all new requirements of low carbon emissions and zero gas consumption.

Awards and Participations

- 1st place in the 3km category in the [Latin American Space Challenge](#) (LASC) competition in 2019, during my leadership. ([Journalistic Interview by GloboNews](#)).
- Participation in the [CBPF](#) study group for the Brazilian Physics Olympics (OBF).
- [SEMIC-UERJ 2020](#) participation in the academic presentation of a real time simulator implementation project.
- Hackaton GitHub 2020 Participation.

Other Skills and Interests

- Beach Volleyball
- Trails
- Cultural Exchange at [Mundolingo Community](#)
- Aerospace Science
- Python and C++